

FORT, MK

2000

Fort, M. K., Jr. Points of continuity of semi-continuous

functions. Publ. Math. Debrecen 2, 100-102 (1951).

The author proves that an upper or lower semi-continuous mapping of a topological space into the set of all non-empty compact subsets of a metric space is continuous at points of a residual set.

S. B. Myers (Ann Arbor, Mich.).

SMW *SMW*

Source: Mathematical Reviews,

Vol 13 No. 2

COUNTRY : Rumania
CATEGORY :
ABS. JOUR. : RZKhim., No. 22 1959, No. 79725
AUTHOR : Oltesanu, E., Ionescu, N., and Fotache, E.
INST. : Not given
TITLE : On the Mechanical Concentration of Lignites
ORIG. PUB. : Rev Minelor, 9, No 2, 82-87 (1958)
ABSTRACT : The authors report on the testing of three processes for the concentration of Rumanian brown coals: separation according to particle size of brown coals and semicoke, separation in high-density organic solutions, and separation in high-density aqueous suspensions. The authors note that for the coals tested separation according to particle size is insufficient and the application of gravity-concentration methods is necessary.
G. Stel'makh
CARD: 1/1 228

FORTAK, Waldemar

Histological and histochemical studies on the origin and pathways
of liver regeneration in white rats. Lodz. tow. nauk. [IV] no.36:
1-72 '61.

(LIVER physiol) (REGENERATION)

POLAND

W. FORTAK, M. KARASEK and J. SGLASZEWSKI, Department of Histology and Embryology, Head S. BAGINSKI, MD, Medical Academy, Lodz [original affiliation not given,] Lodz.

"Comparative Histochemical Studies on Distribution and Activity of Alkaline Phosphatase and 5-Nucleotidase in the Kidneys of Frogs: *Xenopus laevis*, *Rana esculenta esculenta*, and in the Development of Kidneys in the Chick and the Albino Rat."

Krakow, Folia Biologica, Vol 10, No 3-4, 1962; pp 221-249.

Abstract [English article]: The chick mesonephros is a very active organ but the activity of the mesonephros in the rat fetus is weak. High activity of both phosphatases in Malpighian corpuscles of chick and rat, and in metanephros of *Xenopus*, indicates glomerulus has active role in urine formation. There are 2 peak periods of alkaline phosphatase activity during chick and rat metanephros organogenesis: mesodermal renal tissue formation, and functional start of excretory tubular epithelium. Alkaline phosphatase is more actively involved in development than in 5-nucleotidase. Ten Polish, 1 Czech, 15 Western references; 5 diagrams, 27 photomicrographs. 1/1

FORTAK, Waldemar

Effect of partial removal of the liver parenchyma upon the distribution and activity of phosphatases in the kidneys of white rats. Folia morphol 21 no.4:465-483 '62.

1. Zaklad Histologii i Embriologii, Akademia Medycana, Loda.
Kierownik: prof. dr nauk med. S. Baginski.

FORTAK, Waldemar; KARASEK, Michal; KOLASZYNSKI, Jacek

Effect of biostymin on the cytochemistry of nerve cells of the sympathetic system and on the adrenal medulla of white rats. Endokr. pol. 14 no.2:161-171 '63.

1. Zaklad Histologii i Embriologii AM w Lodzi B. kierownik: prof. dr S. Baginski.

(ALOE) (PHARMACOLOGY) (HISTOCHEMISTRY)
(SYMPATHETIC NERVOUS SYSTEM) (ADRENAL MEDULLA)
(RNA) (MUCOPOLYSACCHARIDES) (GLYCOGEN)

FORTAK, Waldemar

Histologic and histochemical studies on the influence of biostymin on regeneration of hepatic parenchyma in white rats. Arch. immun. therap. exp. 12 no.1:80-95 '64

1. Department of Histology and Embryology, School of Medicine, Lodz.

*

FORTAK, Waldemar; KARASEK, Michal; KOLASZYNSKI, Jacek

Histologic and histochemical studies on the mechanism of action of biostymin in the animal body. Arch. immun. ther. exp. 12 no.1:96-105 '64

1. Department of Histology and Embryology, School of Medicine, Lodz.

*

FORTAK, Waldemar, dr. med.: MOZANSKA, Teresa

Behavior of alkaline phosphatase activity in vaginal smear cells during the estrus cycle in white rats. Endocr. Pol. 16 no.1:55-68 Ja-F '65.

1. Zakład Histologii i Embriologii Akademii Medycznej w Łodzi (p.o. kierownika: dr. med. W. Fortak).

FORTAK, Waldemar

Morphological and histochemical examination of the adrenals of guinea pigs sensitized with heterologous proteins. Endokr. Pol. 16 no.5:457-473 '65.

1. Zakład Histologii i Embriologii AM w Łodzi (P.o. Kierownik: dr. med. W. Fortak).

5. 3/10

1972
304/79-30-3-26/69

AUTHORS:

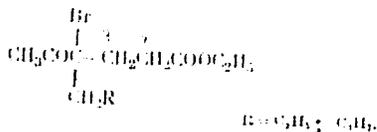
Shusherina, N. P., Izolina, R. Ya., Fortal'nova, G. I.

TITLE:

δ -Lactones. XX. Elimination of Hydrogen Bromide
From Esters of Acyclic γ -Bromo- δ -keto Acids

PERIODICAL:

The authors have attempted in this work to determine the direction of elimination of hydrogen bromide. The general formula of the esters of acyclic γ -bromo- δ -keto acids used in this work is



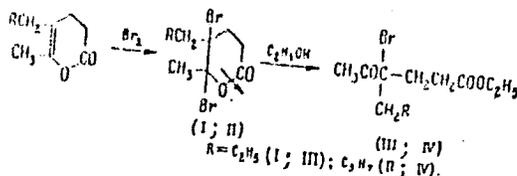
The starting ethyl esters of acyclic γ -bromo- δ -keto acids were prepared by the reaction of alcohol and dibromides of corresponding δ -enol-lactones.

Card 1/4

δ -Lactones. XX. Elimination of
Hydrogen Bromide From Esters of
Acyclic γ -Bromo- δ -keto Acids

78272
307/79-30-3-26/69

The starting ethyl esters of acyclic γ -bromo- δ -keto acids were prepared by the reaction of alcohol and dibromides of corresponding δ -enol-lactones.



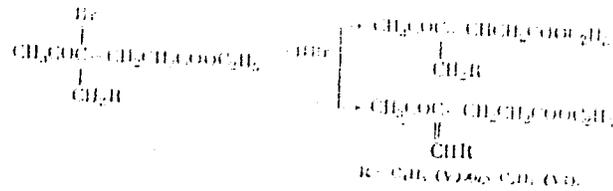
The prepared bromoesters (III and IV), on distillation under vacuum, were not obtained in pure analytical state due to partially eliminated hydrogen bromide. Full elimination of hydrogen bromide from the synthesized bromoesters was achieved by heating them with diethylaniline. Esters of unsaturated keto acids, (V), yield 77%, bp 127-127.5° (11 mm), n_D^{20} 1.4556; and (VI), yield

Card 2/4

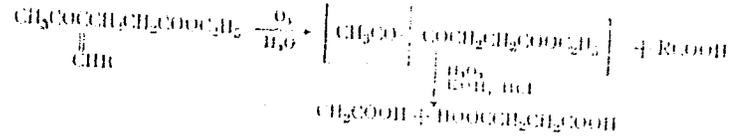
Hydrogen Bromide Elimination
Acyclic γ -Bromo- β -Keto Esters

100-10-3-36/63

^{13}C , ^{19}F (2 mm), n_D^{20} 1.4595, were obtained. The elimination of hydrogen bromide could proceed in two directions:



Ozonolysis of compounds (V) and (VI) indicated that the elimination of hydrogen bromide occurs in the second manner. Hydrolysis of ozonides yielded only succinic acid in both cases.



Card 3/4

δ -Bromoketone. *Ex. 11* (continued)
Hydrogen Bromide from Ester of
Acyclic γ -Bromo- δ -keto acids

1959
1959/12-31-3-25/65

Compounds (V) and (VI) were prepared for the first time. The results of this work led to the conclusion that esters of acyclic γ -bromo- δ -keto acids the β -hydrogen is inert and does not participate in the formation of hydrogen bromide. There are 13 references, 4 Soviet, 6 German, 1 Swiss, 2 U.K. The U.K. references are: Marschall, N., Cameron, A., J. Chem. Soc., 91, 1522 (1907); Stork, G., Singh, G., Nature, 165, 316 (1950).

ASSOCIATION: Moscow State University (Moskovskiy gosudarstvennyy universitet)

SUBMITTED: March 12, 1959

Card 4/4

FORTELNA, A.

Laurence-Moon-Bardet-Biedl syndrome. Cesk. oftal. 20 no.5:375-378
S '64.

1. Očni oddeleni Obvodního ustavu narodního zdravi v Trebici (vedoucí MUDr. V. Smejkal).

FORTIC, Bojan

FORTIC, Bojan, dr.

Tuberculin index in Slovenia. Tuberkuloza, Beogr. 6 no.1:47-64
Jan-Feb 54.

1. Institut za tuberkulozu N.R.Slovenije - Gonik (direktor dr.
Tomas Furlan)

(TUBERCULIN REACTION, statist.

*Yugosl., Slovenia)

FORTIC, Bojan, dr.

Clinical classification of the pulmonary tuberculosis. Tuberkuloza,
Beogr. 6 no.4:194-197 July-Aug 54.

1. Institut za tuberkulozu Slovenje - Golnik (direktor prim. dr.
T.Furlan.

(TUBERCULOSIS, PULMONARY
classif.)

FORTIC, Bojan Dr.

**Meningeal tuberculosis; results of an inquiry on 723 cases in
Slovenia. Tuberkuloza, Beogr. 6 no.5-6:330-339 Sept-Dec.'55.**

**1. Institut za tuberkulozu N R Slovenije--Golnik (direktor:
prim. dr T. Furlan)**

**(TUBERCULOSIS, MENINGEAL, statist.
in Slovenia, Yugosl.(Ser))**

FORJIC, Bojan, Dr.

Past and present tuberculosis mortality in Slovenia. Tuberkuloza
Beogr. 7 no.1:48-79 Jan-Feb '55.

1. Institut za tuberkulozu NR Slovenije-Solnik (direktor: prim.
dr Tomaz Furlan)

(TUBERCULOSIS, statist.

mortal., in Slovenie, Yugosl.,(Ser))

FORTIC, Bojan, Dr.

Proposal for state-wide fluorographic classification.
Tuberkuloza, Beogr. 7 no.5-6:364-371 Sept-Dec 55.

1. Institut za tuberkulozu N. R. Slovenije; Golnik (direktor:
prim. dr. T. Furlan).

(TUBERCULOSIS, PULMONARY, radiography,
proposed uniform, photofluorographic classif. in
Yugosl. (Ser))

FORTIC, Bojan, Dr.

Data on the treatment of tuberculotics in Slovenia in 1954.
Tuberkuloza, Beogr. 8 no.2:116-123 Mar-Apr 56.

1. Institut za tuberkulozu NR Slovenije u Golniku (direktor:
prim. dr. T. Furlan).

(TUBERCULOSIS, PULMONARY, ther.

statist. of results in Slovenia (Ser))

FORTIC, Bojan, Dr.

So-called permanent successes of the treatment of lung tuberculosis. Med. glasn. 10 no.11-12:460-467 Nov-Dec 56.

1. Institut za tuberkulozo NR Slovenije na Golniku (upravnik prim. dr. T. Furlan).
(TUBERCULOSIS, PULMONARY, ther.
follow-up statist. (Ser))

FORTIG, Bojan, dr.

Certain important changes in tuberculosis. Med. glasn. 14 no.2:
55-61 F '60.

1. Institut za tuberkulozo NR Slovenije na Golniku, Upravnik:
prim. dr T. Furlan.
(TUBERCULOSIS epidemiol.)

FORTIC, Bojan; SIMEONOV Ljubomir

Post-vaccination tuberculin sensitivity in BCG- vaccinated
and revaccinated subjects. Tuberkuloza 15 no.3:409-417
Jl-D'63.

1. Institut za tuberkulozu, Golnik, i Zavod za tuberkulozu,
Sarajevo.

5

FORTIC, Rojan, doc. dr.; KOMAR, Marjan, dr.

Evaluation of therapeutic results in chronic cavitary tuberculosis treated with ethionamide, cycloserine and pyrazinamide. (A joint study on results and prospects). Tuberkuloza 16 no.5: 359-371 S-D '64

1. Institut za tuberkulozu, Golnik (Direktor: doc. dr. B. Fortić);
Bolnica za plucne bolesti, Sezana (Direktor: dr. M. Komar).

FORTIC, Bojan

Possibilities and results of surgical therapy in bronchial carcinoma (3-year results in 201 cases). Tuberkuloza 17 no.1/2: 135-149 Ja-Ap'65.

1. Institut za tuberkulozu, Golnik (Direktor: doc. dr. Bojan Fortic).

BRANKO, Stangl; FORTIC, Majda

Bronchspirometry. I. (Introduction and technic). Tuberkuloza
16 no.5:378-385 S-D '64

1. Institut za tuberkulozu, Golnik (Direktor: doc. dr. Bojan
Fortic).

STANGL, Branko; FORTIC, Majda

Bronchspirometry. Ft.2. Tuberkuloza 17 no.3:196-205 My-Je '65.

1. Institut za tuberkulozu Socijalisticke Republike Slovenije,
Golnik (Direktor: doc. dr. Bojan Fortic).

FORTINOV, I.G.

Determining geometrical dimensions of the elements of rubber ring sealings of hydraulic and pneumatic units. Izv.vys.ucheb.zav.; av.tekh. 6 no.3:100-112 '63. (MIRA 16:10)

FORFOVA, J.

CZECHOSLOVAKIA/Chemical Technology - Chemical Products and Their Application. Food Processing Industry. H-28

Abs Jour : Ref Zhur - Khimiya, No 17, 1958, 59184

Author : Litos F Kozisek R, Fortova J

Inst : -

Title : Concerning the Rapid Determination of Moisture, Fat and Salt in Meat Stuffs, Semi-Finished and Finished Products

Orig Pub : Prumysl potravín. 1957, 8, No 1, 46-49

Abstract : A comparative study was conducted of the methods of determining moisture in meat, sausage, and sausage products, in comparison with the method of drying at 106° with sand to a constant weight. Satisfactory results were provided by drying with infra red rays at 170-175° in a pan with a diameter of 6-6.5 cm.

Card 1/1

FORTOVA, J.

CZECHOSLOVAKIA/Chemical Technology. Chemical Products and
Their Application, Part 3. - Food Industry.

H

Abs Jour: Referat. Zhurnal Khimiya, No 21, 1958, 72372.

Author : F. Litos, R. Kosizek, J. Fortova

Inst :

Title : Upon the Rapid Determination of Moisture, Fat and
Salt in Meat Raw Materials, Semifinished and Finished
Products.

Orig Pub: Prumysl potraviny, 1957, 8, No 2, 89-92.

Abstract: The ground sample (about 10 g) is put into a
Petri cup, which has been weighed in advance,
dried 30 min. at 170 to 175°, and weighed with
an accuracy to 0.01 g. The fat content is deter-
mined by extraction and weighing either fat, or
the residue, or by the method based on the pre-

Card : 1/2

ACC NR: AP7001454

(A)

SOURCE CODE: UR/0413/66/000/021/0196/0196

INVENTORS: Il'in, V. A.; Fortovova, L. S.

ORG: none

TITLE: A method for electrolytic deposition of alloys based on gold with copper, silver, or antimony. Class 48, No. 188254

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 21, 1966, 196

TOPIC TAGS: gold, copper, silver, antimony, gold containing alloy, silver containing alloy, gold base alloy, antimony alloy, electrolytic deposition

ABSTRACT: This Author Certificate presents a method for electrolytic deposition of gold base alloy with copper, silver, or antimony. To improve the health conditions of the workers and the quality of the deposit, the deposition of the alloys is conducted from the electrolyte containing (in g/liter): metallic gold...3--5, potassium ferrocyanide...80--200; potassium thiocyanate...80--120; metallic copper...2--4; or metallic silver...0.5--1.0; or metallic antimony...0.03--0.07. The temperature should be 40--70C and the current density for alloys of gold-copper, 0.4--0.7 amp/dm²; for gold-silver, 1.0--1.5 amp/dm²; for gold-antimony, 0.3--0.5 amp/dm².

SUB CODE: 11, 07/ SUBM DATE: 28Jul65

Card 1/1

UDC: 621.357.7:669.215

< FORTUNA, Anatoliy Iosifovich; VOROTNIKOVA, R.V., red.; SERADESKAYA,
P.G., tekhn.red.

[Friendship makes them strong; study of I.P.Borisov's brigade
of communist labor at the Lenin Plant] Oni druzhboi sil'ny;
ocherk o brigade kommunisticheskogo truda I.P.Borisova na
zavode im. Lenina. Voronezh, Voronezhskoe knizhnoe izd-vo,
1960. 25 p. (MIRA 14:4)
(Voronezh--Milling machinery) (Socialist competition)

FORTUNA, Jan, inz.

Specialized transportation adjusted to the needs of the
new technology in the building industry. Przegl techn
85 no. 22: 7,9 31 My '64.

BOVDA, V.; VEDENYAPIN, G.; MOROZOV, A.; FORTUNA, V.; PIIRSOO, E.
[translator]; RISTOJA, J., red.

[Checking the technical condition of a tractor diesel engine without dismantling] Traktorite diiselmootorite tehnilise seisukorra kontrollimine ilma lahti monteeri- mata. [By] V. Bovda ja teised. Tallinn, Eesti Riiklik Kirjastus, 1964. 57 p. [In Estonian] (MIRA 17:6)

FORTUNA, V.I., inzh.

Optimal speed of machinery in intertillage. Mekh. 1 elek.
sots. sel'khoz. 19 no.6:9-12 '61. (MIRA 14:12)

1. Volgogradskiy sel'skokhozyaystvennyy institut.
(Tillage)

FORTUNAT, W.

New problems in the mechanics of loam soils, p. 49. (PRZEGLAD GEOLOGICZNY,
Warszawa, No. 2, Feb. 1955.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 2, 1955,
Uncl.

FORTUNAT, Wincenty

Stressing and destressing rocks. Kwartalnik geol 6 no.2:427-428
'62.

1. Zaklad Geologii Inzynierskiej, Instytut Geologiczny, Warszawa.

FORTUNAT, Wincenty

Results of studies on straining and unstraining marble
from the Debnik quarry. Kwartalnik geol 6 no.4:526-538
'62.

1. Zaklad Geologii Inzynierskiej, Instytut Geologiczny,
Warszawa.

FORTUNATOV, A.

Methodology to determine the expected economy from introducing the
organizational and technical plan in enterprises. Biul.nauch.inform.:
trud.i sar.plata no.12:11-19 '59. (MIRA 13:10)
(Machinery industry--Production standards)

16.450029859
S/044/61/000/007/031/055
C111/C222AUTHOR: Fortunatov, A.L.

TITLE: On singular integral equations of a special form

PERIODICAL: Referativnyy zhurnal, Matematika, no. 7, 1961, 64,
abstract 7 B 289. ("Tr. Kazansk. khim.-tekhnol. in-ta", 1960,
vyp 29, 160-163)

TEXT: The author investigates the equation

$$\frac{1}{\pi i} \int \frac{\varphi(t)}{t - \alpha(x)} dt = f(x), \quad (1)$$

where L is a simple smooth open curve and $\alpha(x)$ transfers the curve L into its part L_1 under preservation of the sense of direction. By a reduction to a Riemannian boundary value problem the solution of (1) is obtained in a closed form. The solution is expressed with the aid of an arbitrary function $g(x)$ given on $L - L_1$. This is the distinction

between (1) and the equations considered in earlier papers. There are two essential misprints: 1) in the right-hand side of (1) there is $t(x)$

Card 1/2

SOV/113-59-5-1/21

AUTHOR: Fortunatov, A.V.

TITLE: The Determination of the Economical Effectiveness of Introducing New Technology and Suggestions for Efficiency Improvement

PERIODICAL: Avtomobil'naya promyshlennost', 1959, Nr 5, pp 1 - 3 (USSR)

ABSTRACT: The author explains in this article the methods used for determining the economical effectiveness of introducing new technologies and suggestions for efficiency improvement at the Moscow Automobile Plant imeni Likhachev, where this method has been used for the past ten years. It shows such factors as quality increases in production, improvements of working and safety conditions and reductions in production costs. Generally, there are two methods: one is used for determining the production self-cost before and after the introduction of a new method, while with the second method, which is used at the Moscow Automobile Plant imeni

Card 1/2

SOV/113-59-5-1/21

The Determination of the Economical Effectiveness of Introducing
New Technology and Suggestions for Efficiency Improvement

Likhachev, the improvement is considered from the view-point of the national economy. The author presents five examples for the calculation of the economical effectiveness of improvement suggestions.

ASSOCIATION: Moskovskiy avtozavod imeni Likhacheva (Moscow Automobile Plant imeni Likhachev)

Card 2/2

L'VOVA, L.A. (Saratov); FORTUNATOV, A.V. (Saratov)

Anodic oxidation of cadmium in concentrated solutions of alkali.
Part 1. Zhur.fiz.khim. 37 no.8:1708-1711 Ag '63. (MIRA 16:9)

1. Saratovskiy gosudarstvennyy universitet.
(Cadmium) (Oxidation, Electrolytic)

FORTUNATOV, A.V.; L'VOVA, L.A.; Primala uchastiye STOYAKOVA, O.N.,
studentka

Anodic oxidation of cadmium in concentrated solutions of alkali.
Part 2. Zhur.fiz.khim. 37 no.8:1712-1717 Ag '63. (MIRA 16:9)

1. Saratovskiy gosudarstvennyy universitet.
(Cadmium) (Oxidation, Electrolytic)

FORTUNATOV, A.V., dotsent, kandidat khimicheskikh nauk.

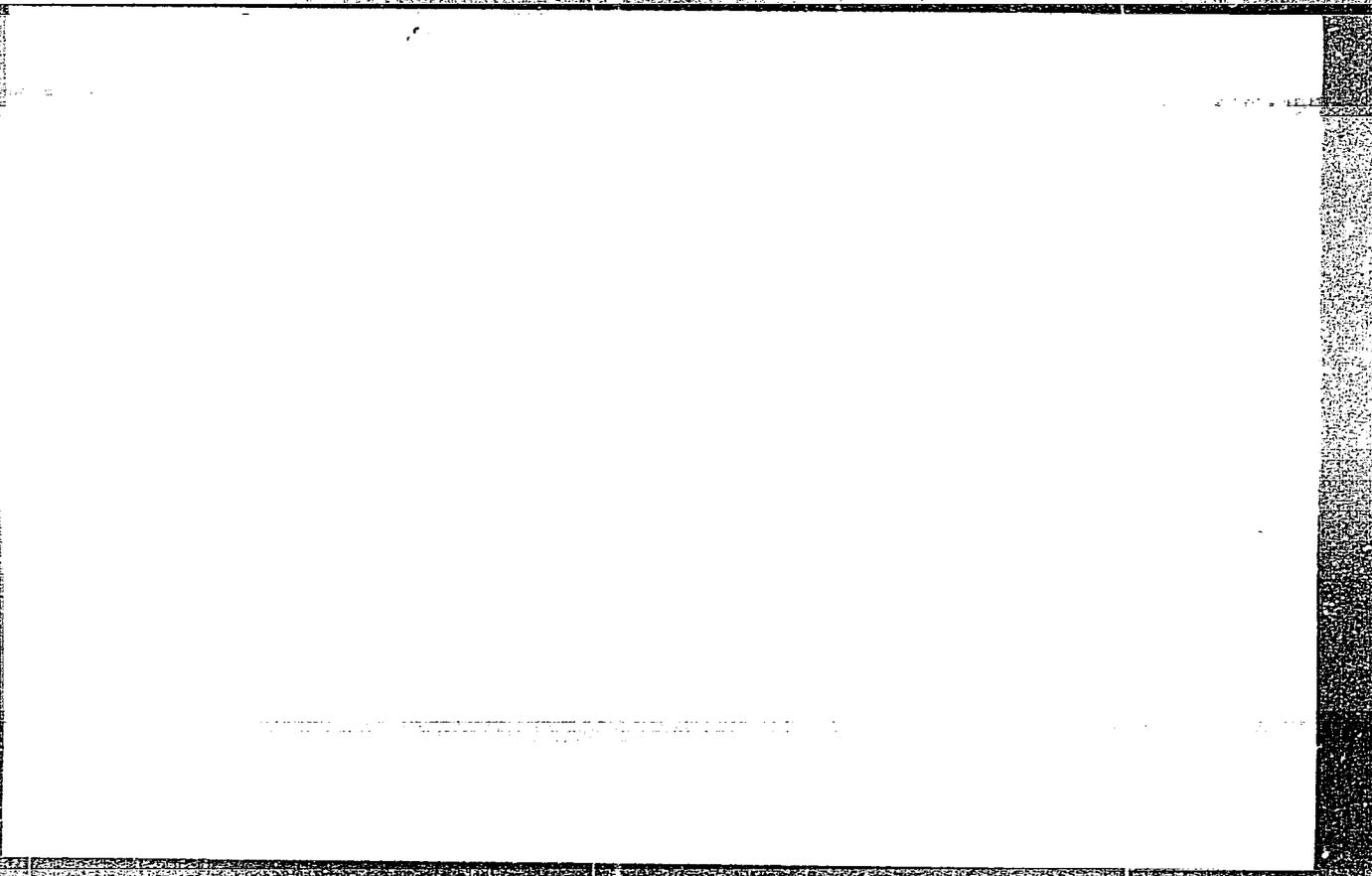
Universal reflectometer. Vest.mash. 33 no.7:84-85 J1 '53. (MLRA 6:8)
(Reflectometer)

The mechanism of the process...
...accumulation at the surface...
...more noble...
...anode potential...
...formation of...
...Thus, between...
...a film of...
...increasing its potential, but at the same time...
...with the formation of a phosphate. At 1400...
...O appeared. They detached the film from the...
...the process repeated itself until active spots remained at the...
...anode surface. A quant. relation between the potential...
...and the intensity of current... was found to be...
...Exptl. and theoretical values of the constants...
...seemed to bear out the validity of the proposed mechanism.

N. Goshwami

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000413520009-7



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CIA-RDP86-00513R000413520009-7"

Easton 11

Handwritten scribbles at the top of the page.

Distr: 4E2c 18 18

✓ Cold phosphatization of steel. A. V. Kartunatov and
M. A. Kis'lyva. Nauch. Tekhnichesk. Seriya, Seriya
Dizn. (S'ratov) 1955, 544; Referat. Zhur., Med. 1956,
Abstr. N. 7781. Conditions of operation and compari-
of the bath were found in which cold phosphatization gave, on
steel, phosphate films as good as those obtained by hot
phosphatization. The quality of the film improved with
decrease of the content of NaF in the bath. An important
factor is the content of free acid in the bath, not the degree
of acidity. A. N. Pestoff

Handwritten initials "RG" below the main text.

Handwritten marks "5" and "1" to the right of the main text.

~~FORTUNATOV, A.V.~~; KOLOSOV, A.S.; KROGIUS, Ye.A.; KLYUKINA, N.G.;
L'VOV, A.L.

In memory of N.V. Shishkin. Zhur.ob.khim. 26 no.3:937-938 Nr '56.
(MLRA 9:8)

(Shishkin, Nikolai Vasil'evich, 1891-1954)
(Bibliography--Chemistry)

FORTUNATOV, A. V.

137-1957-12-24609

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 12, p 237 (USSR)

AUTHORS: Fortunatov, A. V., Kvyatkovskaya, G. A.

TITLE: On the Problem of Electro-polishing of Copper in Phosphoric Acid. Report Nr IV. A Study of Surface Quality of Electro-Polished Copper by the Method of Diffused Reflection of Light (K voprosu ob elektropolirovke medi v fosfornoy kislote. Soobshcheniye IV. Izucheniye kachestva elektropolirovannoy poverkhnosti medi metodom diffuznogo otrazheniya sveta)

PERIODICAL: Uch. zap. Saratovsk. un-t, 1956, Vol 43, pp 39-46

ABSTRACT: Electro-polishing (EP) of Cu of the M-1 grade was conducted under various conditions in H_3PO_4 solutions of different concentration. It was established that the Cu ions accumulating in the solution do not affect the quality of EP, and that the concentration of H_3PO_4 remains practically unaltered during the process. The process of leveling of the surface occurs during electroglazing (EP accompanied by the liberation of O_2), but not during EP. Under constant voltage the quality of the electro-polished surface improves with the duration of the process. The amount of metal collected from the surface being processed is

Card 1/2

137-1957-12-24609

On the Problem of Electro-polishing of Copper in Phosphoric Acid

directly proportional to the duration of the EP, providing the voltage remains constant. The Authors introduce the concept of submicrorelief, i.e., the relief of the sides of lines which are the predominantly oriented traces of the finishing operations performed on the surface of the metal. The leveling of the submicrorelief, the process which increases the "gloss" of the surface, occurs during the EP process and is not accompanied by the liberation of O_2 . An electro-glossed surface is duller but smoother, since the micro-relief is then being leveled off. The intensity of the specular reflection is an indication of the surface gloss, while the fraction of the diffused reflected light is an indication of its smoothness. For the report Nr III see RZhKhim, 1956, Nr 14, 43857.

V.G.

1. Copper-Electrolytic polishing-Test results
2. Electrolytic polishing

Card 2/2

Fortunatov, A. V.

137-1957-12-24610

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 12, p 237 (USSR)

AUTHORS: Fortunatov, A. V., Ivanov, E. A.

TITLE: On the Problem of Electro-polishing of Copper in Phosphoric Acid. Report Nr V. A Study of the Surface Quality of Electro-glossed Copper by the Method of Diffused Reflection of Light (K voprosu ob elektropolirovke medi v fosfornoy kislote. Soobshcheniye V. Izucheniye kachestva elektroglyantsovanoy poverkhnosti medi metodom diffuznogo otrazheniya sveta)

PERIODICAL: Uch. zap. Saratovsk. un-t, 1956, Vol 43, pp 47-52

ABSTRACT: The electro-glossed surface of Cu of the M-1 grade was investigated under immersion in H_3PO_4 of specific gravity 1.47 and 1.76, and under different conditions of treatment. It was found that best results are obtained when the bath potential is 8-10 volts and the process lasts for 5-10 minutes. Raising the potential increases the gloss, i.e., the intensity of the mirror reflection. If the traces of the finishing operations on the anode are perpendicular to the motion of the bubbles of liberated O_2 , a "re-finishing" process takes place owing to the action of the bubbles. If the traces are lined up with the motion of the bubbles, smoother and

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137-1957-12-24610

On the Problem of Electro-polishing of Copper in Phosphoric Acid

glossier surfaces are obtained. Increasing the concentration of H_3PO_4 impairs the quality of the surface. The finest surface quality of Cu is obtained by following up the electro-glossing process by a process of electro-polishing the surface under optimal conditions.

V.G.

1. Copper-Electrolytic polishing-Test results
2. Electrolytic polishing

Card 2/2

S/081/61/000/003/003/019
A166/A129

AUTHOR: Fortunatov, A. V., Finkel'shteyn, A. V.

TITLE: The mechanism of the electropolishing of metals

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 3, 1961, 88, abstract 3B670.
(Uch. zap. Saratovsk, un-ta, 1959, no. 71, 19 - 25)

TEXT: The anode process in the electropolishing of Cu in H_3PO_4 (6.1 - 15.4M) solutions was examined by studying the change in anode potential at various current densities (i). The hypothesis is advanced that the smoothing process is conditioned not by local pickling of the rough surface's protruding portions, but by the specific chemism of the electrode process consisting not in direct transition of the metal's ions into the solution (as occurs in electrochemical pickling), but in the formation of the intermediate compound CuO which dissolves in the electrolyte. The preeminent oxidation of the protrusions is due to the increased supply of surface energy in them, since they consist either of uncompleted or destroyed elements of the crystal lattice. The relation of the anode potential and i is described by Taffel's (Tafel') equation.

[Abstracter's note: Complete translation] Summary by Z. Solov'yeva

Card 1/1

L'VOVA, L.A.; FORTUNATOV, A.V.

Anodic evolution of oxygen on cadmium in concentrated alkali solutions. Zhur. fiz. khim. 37 no.9:2118-2121 S '63.

1. Saratovskiy gosudarstvennyy universitet. (MIRA 16:12)

L'VOV, A.L.; FORTUNATOV, A.V.

Electrochemical oxidation of copper and its alloys. Report No. 4: Oxidation of copper by atmospheric oxygen in alkaline solutions. Uch.zap. SGU 75:120-122 '62.

Electrochemical oxidation of copper and its alloys. Report No.5: Mechanism of the electrochemical formation of copper oxide in hot concentrated solutions of sodium hydroxide. Ibid.:122-124

(MIRA 17:3)

FORTUNATOV, A.V.; SHARALLO, I.P.

Problem of cold phosphating of steel. Report No.2. Uch.zap.
SGU 75:116-117 '62. (MIRA 17:3)

ACCESSION NR: AT4043085

S/0000/64/000/000/0421/0432

AUTHOR: Fortunatov, A. V., Il'ina, L. K.

TITLE: Cold phosphating of cadmium

SOURCE: Mezhvuzovskaya konferentsiya po anodnoy zashchite metallov ot korrozii. 1st. Kazan, 1961. Anodnaya zashchita metallov (Anodic protection of metals); doklady* konferentsii. Moscow, Izd-vo Mashinostroyeniye, 1964, 421-432

TOPIC TAGS: cadmium coated steel, cold cadmium phosphating, phosphating bath composition, phosphate coating quality, zinc ion concentration effect, bath temperature effect, cadmium subcoating thickness effect, bath stirring effect, bath exhaustion rate, manganese ion effect, cadmium plating, cadmium phosphating, cold phosphating, steel corrosion

ABSTRACT: The principles of cold phosphating were studied on steel samples (area 20-25 cm²) previously cadmium plated (coating 10-15μ, i=1.5 to 4 a/dm², bath composition given), then degreased with ethyl alcohol and phosphated at 25C, by plotting the changes in sample potential (cathode potentiometer, φ-τ curves) and weight of the phosphate coatings obtained in relation to time, temperature, zinc ion content, and agitation of the solution. Coating quality (i. e., corrosion resistance) was measured in relation to the above factors

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ACCESSION NR: AT4043085

(Alkimov's drop test). Several phosphating baths were considered, and two are recommended (204 g/l zinc nitrate, 50 g/l zinc oxide, pH for both 1.9, corrosion stability 12-13 min). The results indicate that the cold phosphating process represents an electrochemical cathodic reduction of nitrates and anodic dissolution of cadmium. The formation of a good coating is governed first of all by an adequately high concentration of zinc ions in the solution and alkalization of the electrode-adjacent layer (insuring precipitation of zinc phosphate). The corrosion resistance of the coating is reduced by heating to 75C or by stirring the bath. The latter factor also reduces the weight of the coatings. Good quality coatings can be obtained only when the cadmium coating is at least 5 μ thick. The bath becomes exhausted after phosphating 2.5 m² of cadmium surface per liter of solution, introduction of Mn ions had a negative effect. Orig. art. has: 10 graphs, 3 tables and 3 equations.

ASSOCIATION: none.

SUBMITTED: 13Mar64

SUB CODE: MM

NO REF SOV: 005

ENCL: 00

OTHER: 007

Card 2/2

ACCESSION NR: AT4043083

S/0000/64/000/000/0395/0411

AUTHOR: L'vova, L. A., Fortunatov, A. V.

TITLE: Anodic oxidation of Cd in concentrated alkali solutions

SOURCE: Mezhvuzovskaya konferentsiya po anodnoy zashchite metallov ot korrozii. 1st Kazan, 1961. Anodnaya zashchita metallov (Anodic protection of metals); doklady* konferentsii. Moscow, Izd-vo Mashinostroyeniye, 1964, 395-411

TOPIC TAGS: cadmium electrode, anodic oxidation, concentrated alkali electrolyte, cadmium electrode passivation, cadmium electrode anodic oxidation, electrochemical adsorption, electrode equivalent diagram, potentiostatic polarization curve, galvanostatic polarization curve, DC passivation analysis, corrosion

ABSTRACT: Sheet cadmium electrodes (0.12% impurities, working surface 10 cm^2) and cadmium wire (99.999% pure, diameter = 0.7 mm, working surface 0.08 cm^2) were used to obtain potentiostatic-galvanostatic polarization curves and to study the passive state of an electrode by direct current methods, respectively, in 1.1 - 13N NaOH solutions at temperatures of 25 - 80C. Electrode surfaces were prepared by nitral etching and electrolytic polishing. The results are plotted on several graphs and indicate the existence

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ACCESSION NR: AT4043083

of three stages in the potential range from equilibrium to oxygen evolution, which differ in the condition of the electrode surface. A change in sign of the electrode surface charge (- to +) produces a sharp increase in the rate of oxidation, caused by specific adsorption of hydroxyl ions. Equivalent electrical diagrams were plotted for an electrode in the active and passive states and these show that electrochemical adsorption processes are of decisive significance for the anodic oxidation and passivation of a Cd electrode. A probable mechanism is given for passivation of Cd in alkaline solutions, based on the adsorption of singly charged ions of atomic oxygen. Orig. art. has: 2 tables, 15 graphs and 1 formula.

ASSOCIATION: None

SUBMITTED: 13Mar64

ENCL: 00

SUB CODE: MM

NO REF SOV: 010

OTHER: 005

Cord 2/2

L 53892-65 EWT(m)/EWP(l)/EPF(c)/EWA(d)/EWP(t)/EWP(b) JD/WB
ACCESSION NR: AP5014156

UR/0080/65/038/005/1014/1021
669.15-194+546:48=546.183

26
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B

AUTHOR: I I'ina, L. K.; Fortunatov, A.V.

TITLE: Cold parkerizing of cadmium-plated steel

SOURCE: Zhurnal prikladnoy khimii, v. 38, no. 5, 1965, 1014-1021

TOPIC TAGS: parkerizing, cadmium plating, steel corrosion, metal plating, rust preventative

ABSTRACT: The object of the study was to develop a cold parkerizing technique for cadmium-plated steel in order to improve its resistance to corrosion by sea water under typical tropical climatic conditions. The electrolyte composition for cold parkerizing of cadmium, the mechanism of formation of the phosphate coating, and the effect of cadmium plating thickness and structure on the process of formation of the phosphate coating were studied. The steel and iron samples used in this study were cadmium plated with an aqueous cyanide electrolyte of the following composition (g/l): cadmium oxide--35 to 45, sodium cyanide--90 to 120, sodium hydroxide--20 to 30, nickel sulfate--0.1 to 2.0, alizarin oil--1.2 to 1.5,

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2

sodium sulfate--40 to 50. The plating thickness was 10 to 15 μ when a cathode current density of 1.5 to 4 a/cm² was used. Armco iron samples, cadmium plated in sulfate and ammonia electrolytes, and also samples of pure cadmium were used to study the effect of thickness and structure of cadmium plating on the process of formation of the phosphate coating. The sample surface area was 20 cm². For producing high quality phosphate coatings during a 10 minute process, the optimum electrolyte composition is (for 1 liter of aqueous solution): zinc nitrate hexahydrate--200 to 250 grams, phosphoric acid--50 g, sodium fluoride--8 g, and zinc oxide--15 g. Electrochemical anodic dissolution of cadmium and cathodic reduction of nitrates take place during parkerizing. The phosphate coating formation is a secondary reaction resulting from the electrochemical processes. Highest quality phosphate coatings are formed on cadmium platings of 5 to 20 μ thick. There is a correlation between the structure of the cadmium plate and the structure and quality of the phosphate coatings. "The authors thank A. L. Rotinyan for the courteous permission to use the facilities of the Lensovet Technological Institute (Tekhnologicheskii institut im. Lensoveta) for measurement of the pH of the liquid films on the electrodes." Orig. art. has: 10 figures and 2 formulas.

Card 2/3

L 53892-65

ACCESSION NR: AP5014156

ASSOCIATION: Saratovskiy gosudarstvennyy institut imeni N. G. Chernyshevskogo
(Saratov State Institute)

SUBMITTED: 15Nov63

ENCL: 00

SUB CODE: MM, GC

NO REF SOV: 017

OTHER: 005

Card 3/3

Fortunatov, Fyodor
FORTUNATOV, FYODOR FEDOROVICH

N/5
876.01
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Izbrannyye trudy [Selected works] Moskva, Uchpedgiz, 1957.

At head of title: ^vAkademiya Nauk SSSR. Otdeleniye Literatury
1 Yazyka.

Lib. has: v.2

FORTUNATOV, G.A.; ALPATOVA, V.V., redaktor; SMIRNOVA, M.I., tekhnicheskii
redaktor

[Teaching psychology in pedagogical schools] O prepodavanii
psikhologii v pedagogicheskikh uchilishchakh. Moskva, Gos. uchebno-
pedagog. izd-vo Ministerstva prosveshchenia RSFSR, 1951. 41 p.
(Psychology--Study and teaching)

FORTUNATOV, G.A., (Moskva); PETROVSKIY, A.V., (Moskva)

The problem of necessities in the psychology of personality.

Vop. psikhol. 2 no.4:12-20 J1-Ag '56.

(MLRA 9:10)

(Personality) (Necessity (Philosophy))

FORTUNATOV, G.A.; FORTUNATOV, I.K.

On the 100th anniversary of Aleksei Fedorovich Fortunatov's
birth (1856-1925): Zemledelie 4 no.12:97-102 D '56. (MLRA 10:2)

(Fortunatov, Aleksei Fedorovich, 1856-1925)

*

100-100, 100, 100.

~~FORTUNATOV, G.A.; FORTUNATOV, I.K.~~

A.P. Fortunatov and Dokuchayev's soil science (on the 100th anniversary of A.P. Fortunatov's birth). Pochvovedenie no.8:113-114 Ag '57. (MIRA 10:11)

(Fortunatov, Aleksei Fedorovich, 1856-1925)

FORTUNATOV, I.K.

Fortunatov, I.K. "Parks of the city of Gur'yev", Vestnik Akad. nauk Kazakh. SSR, 1948, No. 11, p. 83-87.

SO: U-3042, 11 March 53, (Letopis 'nykh Statey, No. 9, 1949)

BOGOMOLOV, I. K.

33345. Rezul'taty Introduktsii Smorodiny Dushistoy V Tsentral'nyy Kazakhstan. Botan. Zhurnal, 1949, No. 5, C. 539-40.

SO: Letopis' Zhurnal'nykh Statey Vol. 45, Moskva, 1949

Acad Sci Kazakh S.S.R.

FORTUNATOV, I. K.

36774. Botaniko-geograficheskiy analiz rezultatov introduktsii derevyaistykh dekorativnykh i plodovo-yagodnykh porod v DshezKazgane. Vestnik Akad. nauk Kazaky. SSR, 1949, No. 8, c. 101-04

SO: Letopis' Zhurnal'nykh Statey, Vol. 50, Moskva, 1949

1. Deystvitel'nyy chlen AN KazSSR (for Pavlov)

DRAGAVTSEV, Aleksandr Petrovich; PAVLOV, N.V., otvetstvennyy redaktor;
UTKINA, Z.I., redaktor izdatel'stva; FORTUNATOV, I.K., redaktor
izdatel'stva; MOSKVICHEVA, N.I., tekhnicheskii redaktor

[Apple trees of mountain regions; ecology and characteristics of
their cultivation based on the example of the Trans-Ili Ala-Tau]
Iablonia gornykh obitani; ekologiya i osobennosti vzdelyvaniia
na primere Zailiiskogo Alatau. Moskva, Izd-vo Akademii nauk SSSR,
1956. 252 p. (MLRA 9:8)

1. Deystvitel'nyy chlen AN KazSSR (for Pavlov)
(Tien Shan--Apple)

FORTUNATOV, G.A.; FORTUNATOV, I.K.

On the 100th anniversary of Aleksei Fedorovich Fortunatov's
birth (1856-1925): Zemledelie 4 no.12:97-102 D '56. (MLRA 10:2)

(Fortunatov, Aleksei Fedorovich, 1856-1925)

FORTUNATOV, I.K., kandidat biologicheskikh nauk.

Aleksei Fedorovich Fortunatov, 1856-1925. Nauka i pered.op. v sel'-
khoz. no.9:52-53 S 156. (MIRA 9:10)
(Fortunatov, Aleksei Fedorovich, 1856-1925)

USSR/Cultivated Plants: Fruits: Berries.

M.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15732

Author : I.K. Fortunatov

Inst : Forestry Institute, Academy of Sciences, USSR.

Title : The Prospective Development of Fruit Raising in the
Ural River Lowlands.
(Perspektivy razvitiya plodovodstva v nizov'yakh reki
Ural).

Orig Pub : Tr. In-ta lesa. AN SSSR, 1956 (1957), 34, 316-344.

Abstract : The contemporary state of fruit raising in the Ural
River lowlands is reported on and a short history of
its development is sketched. Examples are presented
of experiments in the organization of the fruit and
berry base in the eastern rayons of the steppe, desert
and semi-desert zones of the USSR.

Card 1/2

FORTUNATOV, I.K., kandidat biologicheskikh nauk (Moskva).

The oldest Russian agricultural college ("Through the Timiriazev Academy" by Al. Kantorovich. Reviewed by I.K. Fortunatov). Priroda 45 no.12:119-121 D '56. (MLRA 10:2)
(Moscow--Agricultural colleges) (Kantorovich, Al.)

FORTUNATOV, I.K, kandidat biologicheskikh nauk (Pushkino, Moskovskiy oblasti)

"Apple trees of mountain regions" by A.P.Dragavtsev, Reviewed by I.K.Fortunatov. Priroda 46 no.2:119-120 F '57. (MLRA 10:3)
(Tien Shan--Apple)

TABIDZE, Dmitriy Ivanovich; NEGRUL', A.M., prof., otvetstvennyy red.;
FORTUNATOV, I.K., red.; KASHINA, P.S., tekhn.red.

[Introducing the growing of grapes for commercial purposes into new
mountain districts of the Georgian S.S.R.] Prodvizhenie promyshlennoi
kul'tury vinograda v novye gornye raiony Gruzinskoi SSR. Moskva,
Izd-vo Akad.nauk SSSR, 1957. 309 p. (MIRA 11:1)
(Georgia--Viticulture)

FORNATOV, I. K.

FORTUNATOV, I.K.

Prospective development of fruit culture in the lower Ural Valley.
Trudy Inst. lesa 34:316-344 '57. (MIRA 10:6)
(Ural Valley--Fruit culture)

BOEKO, Ye.V., prof., doktor sel'skokhozyaystvennykh nauk; FORTUNATOV, I.K.,
kand. biol. nauk.

Chemical control of tree withering caused by city air pollution
[with summary in English]. Izv. TSKhA no.6:221-226 '58.

(MIRA 12:1)

(Air--Pollution) (Sulfur dioxide) (Trees--Diseases and pests)

26-58-7-43/48

AUTHOR: Fortunatov, I.K., Candidate of Biological Sciences (Moscow)

TITLE: **Viticulture in the Mountains** (Vinograd **podnimayetsa v gory**)

PERIODICAL: Priroda, 1958, ⁴⁷Nr 7, p 123 (USSR)

ABSTRACT: This is a very favorable criticism of the book "Prodvizheniye promyshlennoy kul'tury vinograda v novoyye gornyye rayony Gruzinskoy SSR" (The Progress of the Commercial Culture of the Grape in the New Mountain **Regions** of the Georgian SSR) by D.I. Tabidze published by the Publishing House of the AS USSR, 1957, 307 pp. After a survey of viticulture in the USSR and other countries, the author turns to relevant conditions, achievements and prospects in Soviet Georgia. Some of the described experimental vineyards are situated at a height of 1,200 m above sea level. In addition to much detail, especially suitable grape types and their chemical properties are recommended.

1. Grapes--USSR

Card 1/1

FORTUNATOV, I.K.

"Forests of agricultural importance and their management" by
S.M. Marakian. Reviewed by I.K. Fortunatov. Izv. AN Arm.
SSR. Biol. nauki 16 no.7:99 J1 '63. (MIRA 16:11)

FORTUNATOV, I.K.

"Wild and introduced trees and shrubs of Kazakhstan". Vol.1,
by A.M. Mushegian. Reviewed by I.K. Fortunatov. Izv. AN Arm.
SSR. Biol. nauki 16 no.6:99-100 Je '63.

(MIRA 17:10)

POZDNYAKOV, L.K., otv. red.; FORTUNATOV, I.K., red.izd-va; VOLKOVA,
V.V., tekhn. red.

[Forests of southern Yakutia] Lesa Iuzhnoi Iakutii. Mo-
skva, Izd-vo "Nauka," 1964. 192 p. (MIRA 17:3)

1. Akademiya nauk SSSR. Yakutskiy filial, Yakutsk. Institut
biologii.

FORTUNATOV, M.A. I ESLINGER, YU.U.

25166 Fortunatou, M.A. I Eslinger, Yu.U. Rybokhozyaystvennaya Melioratsiya I Evolotsiya
Del't Amu-Dar'I I Syr-Dar'I. Ryb. Khoz-Uo, 1949, No. 8, S. 16-22

SO: Letopis' No. 33, 1949

FORTUNATOV, M.A.

Fiftieth anniversary of the work of L.S.Berg on the Aral Sea
(1899-1950). Trudy Lab. oseroved. 1:7-11 '50. (MLRA 7:7)
(Berg, Lev Semenovich, 1876-1950) (Aral Sea)

Handwritten: NIKOL'SKIY, G.V.; FORTUNATOV, M.A.

NIKOL'SKIY, G.V.; FORTUNATOV, M.A.

Irrigation construction work and fisheries of the Aral Sea. Mat. k
pozn. fauny i flory SSSR. Otd. zool. no.19:6-20 '50. (MIRA 11:3)
(Aral Sea--Fisheries)
(Amu Darya Valley--Hydraulic engineering)
(Syr Darya Valley--Hydraulic engineering)

FORTUNATOV, M.A.; KURBATOVA, Ye.S.; RAYSKAYA, A.A.

Dynamics of commercial fish stocks of the Aral Sea. Mat. k pozn.
fauny i flory SSSR. Otd. zool. no.19:112-170 '50. (MIRA 11:3)
(Aral Sea--Fisheries)

FORTUNATOV, M.A.

Color and transparency of water in Rybinsk Reservoir as the
characteristics of its regimen. Trudy Inst.biol.vodokhran.
no.2:246-357 '59. (MIRA 13:5)
(Rybinsk Reservoir--Water--Optical properties)

PODDUBNYI, A.G.; FORTUNATOV, M.A.

Utilization of reservoirs of different geographical zones as fisheries. Vop. ikht. 1 no.4:599-611 '61. (MIRA 14:12)

1. Institut biologii vodokhranilishch AN SSSR, Borek, Yaroslavskoy oblasti.

(Reservoirs)
(Fisheries)

FORTUNATOV, M.A.

"Dispersion of radioactive materials by streams" [in English] by
Jared J.Davis. Reviewed by M.A.Fortunatov. Izv.Vses.geog.ob-va
93 no.3:278-280 My-Je '61. (MIRA 14:5)
(Radioisotopes) (North America--Water--Pollution)
(Davis, Jared J.)

CA FORTUNATOV, M.N. Lt. Col.

17

Experimental use of phytonoses for therapeutic and prophylactic purposes. M. N. Fortunatov. *Voprosy Pediat. i Obshch. Materinstva i Detstva* 20, No 2, 65-8 (1952).—Phytonocides, especially those from onion and garlic plants, have strong bactericidal action. Solutions of these were tried clinically for throat spraying in angina. Hypertension of the glottic region was rapidly reduced and the drop of body temp. was accelerated. The results were much more satisfactory than penicillin-therapy. Expts. with treatment of grippe by peroral route (alc. aq. exts. of the plants) gave results that compared well with sulfa therapy; even 1:2000 solns. were very effective, although even solns. dil'd. to 1×10^{-10} taken over several weeks prophylactically reduced the incidence of the grippe by a large factor. Favorable results are reported in treatment of numerous diseases including sciatica, chronic colitis and gastritis, and in reduction of whooping cough.

- Cand. Med Sci.

G. M. Kosolapoff

Med. Service, Gor'kiy, Suworov Military School

FORTUNATOV, M.N.

Effect of garlic phytoncides in man following internal use.
Farm. i toks. 18 no.4:43-46 J1-Ag '55 (MLRA 8:11)

1. Kafedra pediatrii Stalinskogo instituta usovershenstvovaniya
vrachey (zav.prof. Ye.Ye. Granat) i detskoye otdeleniya N-skogo
gospitalya (nach.gospitalya A. F. Il'in)

(GARLIC,
phytoncides, eff. of internal application)